
To: Weatherization Assistance Program
From: Community Programs Division
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Subject: Blower Door Guidance

Program Guidance: WX-019-01

IHCDA Airsealing Targeted Goals:

- If ACH50 is less than 11, the blower door reduction goal is 15%
- If ACH50 is 11-17, the blower door reduction goal is 25%
- If ACH50 is 18-22, the blower door reduction goal is 35%
- If ACH50 is greater than 22, the blower door reduction goal is 40%

To calculate the ACH50, use the formula below:

$$\text{ACH50} = \frac{\text{CFM50} \times (60 \text{ minutes/hour})}{\text{volume of home}}$$

EXAMPLE: A house has a blower door reading of 1550 cfm. The volume of the home is 7,840 cubic feet.

$$\text{ACH50} = \frac{1550 \times 60}{7840} = 11.86 \text{ (round to 12)}$$

So for this house, the target blower door reduction is 25%

To calculate the target blower door number, use the formula below:

$$\text{BD Target} = \text{BD Reading (cfm)} \times (1 - \text{BD reduction goal \%})$$

$$\text{BD Target} = 1550 \times .75 = 1,162.5 \text{ (rounded to 1,163 cfm)}$$

The BD Target is the minimum number to achieve the 25% targeted reduction.

